

JOINT ELECTRON TUBE ENGINEERING COUNCIL

DATA SHEET

Electron Tube Type 5835

The 5835 is a single-ended, mercury-vapor, half-wave rectifier for use in low-voltage rectifier circuits.

Maximum Ratings, Absolute Values

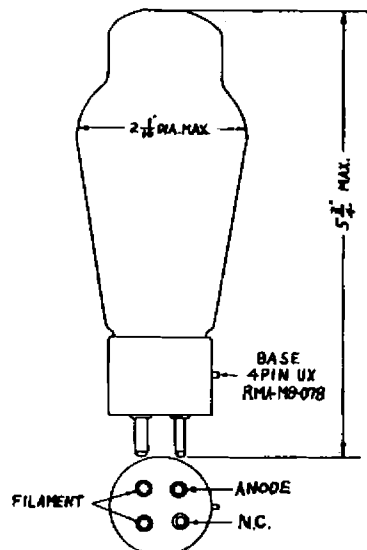
Maximum Peak Inverse Anode Voltage	900	Volts
Maximum Cathode Current		
Peak		
In-phase Operation	12	Amperes
Quadrature Operation	12	Amperes
Average		
In-phase Operation	3	Amperes
Quadrature Operation	3	Amperes
Surge (Maximum duration 0.1 seconds)	200	Amperes
Maximum Averaging Time	5	Seconds
Maximum Frequency	150	Cycles/sec
Condensed Mercury Temperature Limits (mercury or mercury-gas filled tubes only)	+35° to +85° Centigrade	

Electrical Data

	Min.	Bogey	Max.	
Filament (heater) Voltage	2.38	2.5	2.62	Volts
Filament (heater) Current at 2.5 volts	XX	9½	11	Amperes
Cathode heating time, required	40	XX	XX	Seconds
Anode Voltage Drop	XX	11	XX	Volts
Critical Anode Voltage	XX	XX	30	Volts

Mechanical Data

Type of cooling	Convection
Equilibrium Condensed-mercury Temperature Rise	
a. At Full Load, approximate	30° C
b. At No Load, Approximate	23° C
Mounting position	Vertical, base down
Net Weight, maximum	.4# pounds



NOTE: Condensed mercury temperature is to be measured within 1/4" band immediately above base.

4/7/49

8/10/50

(N.E. type NL-653)